Index of Claims

| Application/Co | ontrol No. |
|----------------|------------|
|----------------|------------|

10/770,718 Examiner

Que T. Le

Applicant(s)/Patent under Reexamination

BOEHM ET AL.

Art Unit

2878

Rejected Allowed

| _ | (Through numeral) Cancelled |
|---|--------------------------------|
| | Postricted |

| Z | Non-Elected |
|---|--------------|
| _ | Interference |

| А | Appeal |
|---|----------|
| 0 | Objected |

| □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | | | Г | | | | Date | | | | | ١ | Cla | aim | | | | | Date | | | | |
|---|--------------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|---------------|---|-------|-----|----|----------|--------|----------|--------|----------|----------|----------|---|
| 1 √ 2 3 3 4 5 5 6 6 7 7 8 8 9 5 10 √ 60 6 61 6 61 6 61 6 61 6 61 6 61 6 61 6 62 6 63 6 64 6 65 6 67 6 67 6 67 6 67 6 67 6 68 6 69 70 21 70 71 71 22 72 23 73 34 74 25 75 26 76 77 77 28 79 30 | - C19 | ***** | \vdash | | ı — | <u> </u> | 1 | Ī | | | | ŀ | | | | | | Γ- | | Ť | | | Γ |
| S2 | Final | Original | l | | | | | | | | | | Final | | | | | | | | | | |
| 3 4 5 5 6 5 7 55 8 58 9 58 10 √ 11 61 12 62 13 64 14 64 15 65 16 66 17 68 18 68 19 69 20 70 21 71 22 72 23 73 24 74 25 75 26 77 28 79 30 80 31 81 32 82 33 84 34 84 35 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 | | 1 | √ | | | | | | | | | | | | | | | | | | | | |
| 4 5 5 6 6 6 7 7 8 9 10 √ 60 60 111 60 12 62 13 63 14 64 15 66 16 65 17 67 18 68 19 69 20 70 21 71 22 73 23 73 24 74 25 76 27 77 78 79 30 80 31 81 32 82 33 84 44 84 40 90 44 91 45 95 46 96 97 97 97 99 | | | | | | | L | | | | _ | | | | Ш | | | _ | | | <u></u> | <u> </u> | L |
| 5 6 6 6 7 7 8 8 9 60 10 √ 11 61 12 63 13 64 15 65 16 66 17 67 18 68 19 69 20 70 21 71 22 73 23 73 24 74 25 75 28 76 27 77 28 78 29 79 30 81 31 81 32 82 33 84 34 84 35 85 36 86 37 87 38 88 39 90 40 90 41 91 42 92 | | 3 | | | | | L | | L_ | | | | | 53 | | | | _ | | | | | L |
| 6 7 7 55 8 58 9 60 11 61 12 62 13 64 15 65 16 66 17 66 18 68 19 69 20 70 21 71 22 72 23 73 24 74 25 75 26 76 27 77 28 79 30 80 31 81 32 79 33 83 34 84 35 85 36 86 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 95 96 96 | | 4 | | | | | | | | | | | | | | | | <u> </u> | | | | | L |
| 6 7 7 55 8 58 9 60 11 61 12 62 13 64 15 65 16 66 17 66 18 68 19 69 20 70 21 71 22 72 23 73 24 74 25 75 26 76 27 77 28 79 30 80 31 81 32 79 33 83 34 84 35 85 36 86 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 95 96 96 | | 5 | | | | | | | | | | | | 55 | | | | | | <u> </u> | | | L |
| 7 8 9 10 √ 111 60 12 62 13 63 14 64 15 66 16 66 17 67 18 68 19 69 20 70 21 71 22 72 23 73 24 74 25 75 26 76 27 77 28 79 30 80 31 81 32 82 33 83 34 84 35 85 36 86 37 87 38 89 40 90 41 91 42 92 43 93 44 94 45 95 46 97 47 9 | | 6 | | | | | | | | | | | | 56 | | | | | | | | | L |
| 9 | | 7 | | | Γ | | | | | | | | | | | | | | | | L | | |
| 10 V 11 | | 8 | Π | | | Г | | | | | | | | | | | | | | | | | |
| 10 V | | 9 | T | | | | | Ī., | | | | | | 59 | | | | | | | | | |
| 12 | | | V | | | П | Г | | | | | | | 60 | | | | | | | | | |
| 13 | | 11 | Π | | | | Г | | | | | | | | | | | | | | | | L |
| 13 | | 12 | Г | | П | | | | | | | | | | | | | | | _ | | | L |
| 14 64 65 15 66 65 16 67 68 17 68 69 20 70 71 21 71 72 23 73 74 25 75 76 26 76 77 27 77 78 29 79 80 30 80 81 32 82 83 33 83 84 35 85 86 37 87 88 39 90 90 41 91 92 43 94 94 45 96 97 48 98 99 | | | | | L | | | | | | | | | 63 | | | | | 匚 | L | | | Ĺ |
| 15 65 66 17 66 67 18 68 69 20 70 71 21 72 72 23 73 74 25 75 76 26 77 77 28 79 80 30 80 81 32 82 82 33 83 83 34 84 84 35 85 86 37 87 88 38 88 89 40 90 90 41 91 92 43 94 94 45 96 97 48 99 99 | | 14 | Г | | | | | | | | | | | | | | | | | | | | |
| 16 17 66 67 68 18 68 69 70 71 71 71 72 72 73 74 74 74 74 75 75 75 76 77 78 79 78 79 79 79 79 80 80 83 83 83 83 83 83 83 84 85 85 86 85 86 86 86 89 90 <t< td=""><td></td><td></td><td>Π</td><td></td><td></td><td>П</td><td>Г</td><td></td><td></td><td></td><td></td><td></td><td></td><td>65</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | Π | | | П | Г | | | | | | | 65 | | | | | | | | | |
| 17 18 67 68 69 70 70 70 71 72 72 72 72 73 73 74 74 74 74 74 75 76 77 77 77 77 77 77 77 78 79 30 80 80 81 81 82 83 83 84 84 83 83 83 83 84 84 84 84 84 84 85 86 87 38 88 89 90 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Г</td><td></td><td></td><td></td><td></td><td></td><td>66</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | Г | | | | | | 66 | | | | | | | | | |
| 18 19 20 70 21 71 22 72 23 73 24 74 25 75 26 77 27 77 28 78 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | | | П | П | | | | | | | 67 | | | | | | | | _ | |
| 19 69 20 70 21 71 22 73 23 74 24 74 25 75 26 76 27 77 28 79 30 80 31 81 32 82 33 83 34 84 35 85 36 86 37 88 39 89 40 90 41 91 42 92 43 94 44 95 46 96 47 97 48 98 49 99 | | | | <u> </u> | | Г | Ī | | | | | | | 68 | Г | | | | | | | | Γ |
| 20 70 21 71 22 73 24 74 25 75 26 76 27 77 28 79 30 80 31 82 32 82 33 83 34 84 35 85 36 86 37 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | | | | | | | | $\overline{}$ | | - | | | | | | | | | | Γ |
| 21 71 72 23 73 74 25 76 75 26 76 77 27 77 77 28 79 80 30 80 81 31 82 83 33 84 85 36 86 85 36 86 87 38 88 89 40 90 90 41 91 91 42 92 93 43 94 94 44 94 97 48 98 99 | | | T | | | — | İ | | | | | | | | | | | | | | | | Γ |
| 22 3 72 73 24 74 74 74 25 75 75 76 26 77 77 78 29 79 80 81 30 80 81 82 31 82 83 83 33 84 84 84 35 86 86 86 37 87 88 89 40 90 90 91 41 91 91 92 43 94 94 44 94 96 96 47 96 96 98 49 99 99 99 | | | | | | | | | \Box | | | | | | | | | | | | | | Γ |
| 23 73 24 74 25 75 26 77 28 77 29 78 30 80 31 81 32 82 33 84 35 85 36 86 37 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | 1 | 1 | \vdash | | | | | <u> </u> | | | | | | | | | | | | | Γ |
| 24 74 25 75 26 76 27 77 28 77 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | I | | | | 1 | | Ι | _ | | | | | | | | | | | | T |
| 25 75 26 76 27 77 28 78 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | _ | ┪ | | ┢ | 1 | | | _ | | | | | | | Ι | | | | | T |
| 26 76 27 77 28 78 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | \vdash | T | T | \vdash | 1 | | | | | | | Г | | | | | Π | Π | | T |
| 27 28 29 77 30 80 31 81 32 82 33 84 35 85 36 86 37 87 38 88 39 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | | T | T | | T | | Т | | | | | | | | Т | | | | | Т |
| 28 78 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99 | | | † | Т | | 1- | | Т | Т | | - | | | | | | \Box | Г | | | Г | | Γ |
| 29 79 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99 | | | | | | 1 | 1- | T | \vdash | | | | | | | | | П | Π | | | | Τ |
| 30 80 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99 | | | 1 | | | | 1 | \vdash | | | _ | | | 79 | | | | | Г | | | | Γ |
| 31 81 32 83 33 84 35 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99 | | | ļ | | T | | \vdash | | | | | | | | | | | Г | | | | | Τ |
| 32 82 33 83 34 84 35 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | 1 | | <u> </u> | | Т | | Τ | | | | | | Π | | | | Г | l | П | | Т |
| 33 83 34 84 35 85 36 86 37 87 38 87 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | \vdash | <u> </u> | | | | T- | T | | \vdash | | | | Г | <u> </u> | | | | | | | Τ |
| 34 84 35 85 36 86 37 88 38 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | \vdash | 1 | Т | | T | 1 | | | Г | | | | | | | | | | | П | Т |
| 35 85 36 86 37 88 38 88 39 88 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99 | | | Т | | | T | \top | 1 | | П | Г | | | | | | | | | | | | Γ |
| 36 86 37 88 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | 1 | | Г | | | 1 | \Box | Π | Π |) | | | T_ | | | | | | | | Γ |
| 37 87 38 88 39 90 40 91 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | 1 | T | | | 1 | Т | | Т | <u> </u> | İ | | | | | Γ | | Π | Т | | | T |
| 38 88 39 90 40 91 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | 37 | | T | Π | T | | | | | | 1 | | | | | Г | | | Г | | Г | Γ |
| 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | | | 1 | 1 | T | Т | T- | Γ | | ĺ | | | Π | | | | | | | | Ι |
| 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | Т | | Γ. | | | Π | Τ | Π | | 1 | | 89 | | | | | | Γ | L^- | | Γ |
| 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | 40 | 1 | T | П | Т | T | 1 | | | | 1 | | 90 | Г | | | | | | | | Γ |
| 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | T | П | T | \top | | Π | | T | Г | 1 | | 91 | | | | | \Box | L | | | Γ |
| 43 93 44 94 45 95 46 96 47 97 48 98 49 99 | | | Τ | Π | | П | | Г | П | | | 1 | | | | | | Γ | | | | | Γ |
| 44 94 45 95 46 96 47 97 48 98 49 99 | | | 1 | T | | | | 1 | Γ | | | 1 | | | | | | | | | | | Γ |
| 45 | | | | | | | | 1 | 1 | Γ | Π | 1 | | 94 | | | | | | | | | Γ |
| 46 | | 45 | | \Box | | 1 | 1 | 1 | | | | 1 | | 95 | | | | | | | | | Γ |
| 47 | | 46 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 96 | | | Γ | | Г | | Γ | \Box | Γ |
| 48 98 99 | | | | T | | 1 | 1 | \top | Т | | Π | 1 | | 97 | Π | | | | | | Г | | Γ |
| 49 99 99 | | | T | T | 1 | | 1 | | 1 | T | Г | 1 | | 98 | 1 | | i - | Τ | | | | | Τ |
| 50 100 1100 | | | T | 1 | † | T | | \dagger | \top | T | | 1 | | | 1 | П | Γ | | | | Π | | Τ |
| | | 50 | 1 | | | 1 | T | 1 | | T | 1 | 1 | | 100 | | | Г | | | | | Г | Τ |

| Final | Original | | | | | | | | | |
|----------|----------------------------|----------|------------------|--------------|--|----------------|--------------|----------------|--|----------|
| \vdash | 51 | | | \vdash | | - | | | - | - |
| | 52 | | | | _ | | | | | |
| - | 52 53 | _ | | - | - | \vdash | | | | - |
| | 53 | | | - | - | - | - | | | \dashv |
| - | 54 | | | | <u> </u> | - | _ | | | \dashv |
| - | 55 | | | _ | | Ш | | | _ | - |
| | 56 | | | <u> </u> | _ | | | | _ | |
| | 57 | | | L_ | _ | | | | | |
| | 58 | | | | _ | | | | | |
| | 59 | | | | | | | | | |
| | 60 | | | | _ | | | | | |
| | 61 | | | | | | | | | |
| | 62 | | | | _ | | | | | |
| | 63 | | | | | | | | | |
| | 64 | | | | | | | | | |
| | 65 | _ | Ī | П | | | | | | П |
| | 66 | | | | | | | | | |
| | 66 67 | | | _ | | | | | | |
| - | 68 | | | | | | | | | \neg |
| - | 69 | | | <u> </u> | | | _ | | | П |
| | 70 | _ | | - | | | - | | \vdash | \vdash |
| | 71 | _ | _ | - | \vdash | \vdash | | - | | П |
| | 72 | | \vdash | ├ | - | 1 | | - | - | Н |
| | 73 | | | ┢ | - | | | - | - | Н |
| | 74 | | - | - | - | | \vdash | \vdash | | - |
| - | 71 72 73 74 75 | | | - | | - | \vdash | \vdash | - | Н |
| | 76 | | \vdash | ┢ | | - | \vdash | \vdash | | Н |
| | 76 77 78 79 | _ | | ┢ | | | \vdash | Ь | - | Н |
| <u> </u> | 78 | | - | - | - | | \vdash | - | | Н |
| | 70 | | \vdash | \vdash | | 1 | \vdash | - | | |
| - | 80 | | \vdash | ⊢ | - | - | \vdash | \vdash | - | - |
| - | 81 | | ┢ | <u> </u> | \vdash | ├ | | \vdash | | - |
| - | | | - | \vdash | | | | - | \vdash | \vdash |
| | 82 | | | \vdash | \vdash | - | | \vdash | \vdash | - |
| <u> </u> | 83 | | ├ | \vdash | - | | - | | \vdash | - |
| — | 84 | | \vdash | \vdash | - | | | \vdash | - | - |
| | 85 | | - | - | - | | \vdash | \vdash | ⊢ | |
| - | 86 | | - | - | - | ├ | \vdash | ├ | | - |
| <u> </u> | 87 | _ | <u> </u> | ├ - | - | \vdash | \vdash | - | | - |
| <u> </u> | 88 | | | | \vdash | \vdash | ├ | | <u> </u> | \vdash |
| | 89 | | | ├ | ├- | ├ | <u> </u> | <u> </u> | <u> </u> | _ |
| | 90 | | - | ├- | | — | <u> </u> | <u> </u> | | |
| <u> </u> | 91 | | <u> </u> | ┡ | | ├ | - | — | _ | _ |
| ļ | 92 | | <u> </u> | | \vdash | - | | <u> </u> | - | |
| | 93 | | <u> </u> | ــــ | - | | <u> </u> | - | - | ├ |
| | 94 | <u> </u> | | 1 | | <u> </u> | <u> </u> | <u> </u> | — | |
| | 95 | <u> </u> | <u> </u> | <u> </u> | | <u> </u> | | <u> </u> | \vdash | <u> </u> |
| | 96 | | L | <u>_</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | ⊢ | <u> </u> |
| | 97 | _ | \vdash | ↓_ | _ | <u> </u> | <u> </u> | <u></u> | _ | <u> </u> |
| | 98 | | $oxed{igspace}$ | ↓_ | ↓_ | _ | L_ | <u> </u> | <u> </u> | <u> </u> |
| | 99 | | $oxed{oxed}$ | <u> </u> | <u></u> | <u></u> | 1_ | $oxed{oxed}$ | Ь. | _ |
| | 100 | | 1 | 1 | 1 | 1 | | l | 1 | 1 |

| Cli | aim | _ | _ | | | Date | 9 | | | |
|----------|------------|--|--|----------------|------------------|--------------|--------------|--------------|----------|---------------|
| | | | | | | | | | | |
| Finat | Original | | | | | | | | | |
| 🛅 | 훈 | | | | | | | | | |
| | | | | | | | | | | |
| | 101 | _ | | | | | | | | |
| - | 102 | _ | _ | | | | | | _ | _ |
| - | 103 | _ | - | | | | \vdash | | - | |
| - | 104 | | | | | | Н | | \vdash | |
| | 105 | | | \vdash | | - | | | \vdash | |
| | 106 | - | | | _ | | - | | | - |
| | 107 | | | _ | _ | - | \vdash | | Н | - |
| | 108 | _ | | | - | - | \vdash | _ | - | - |
| | 100 | _ | | _ | | <u> </u> | Н | _ | | |
| | 109 | _ | | _ | - | | Н | _ | _ | |
| - | 110 | | _ | _ | ŀ | - | - | | - | |
| | 111 | | | | | | _ | _ | - | |
| | 112 | | | <u> </u> | ļ | ļ | | | | _ |
| | 113 | | | | ļ | _ | | _ | | |
| | 114 | | | L | | _ | _ | | | |
| | 115 | | | | | _ | $oxed{oxed}$ | | | |
| L | 116 | | L | | | | | | | _ |
| | 117 | | | | | | | | | |
| | 118 | | | | | | | | | |
| | 119 | | | | | | | | | |
| | 120 | | | | | | - | | | |
| | 121 | | _ | | | \vdash | | _ | | |
| | 121 122 | | _ | | | | | | | |
| | 123 | | \vdash | | - | | \vdash | | | |
| | 124 | | ┝ | \vdash | - | ├─ | | _ | | |
| | 124 125 | _ | ├─ | - | - | - | | - | - | \vdash |
| \vdash | 125 | | \vdash | \vdash | - | | - | ┝ | - | |
| - | 126 127 | | ├ | | | | \vdash | ┝ | - | \vdash |
| | 127 | | ├ | | ├ | - | - | - | - | _ |
| - | 128 | _ | ⊢ | <u> </u> | | _ | _ | <u> </u> | - | _ |
| <u> </u> | 129 130 | _ | <u> </u> | <u> </u> | | - | _ | <u> </u> | | _ |
| | 130 | | <u> </u> | <u> </u> | <u>L</u> . | _ | _ | _ | <u> </u> | _ |
| | 131 | | | _ | | | | | | _ |
| | 132 133 | | | _ | L | _ | | _ | _ | |
| | 133 | | | | | L | | _ | _ | <u> </u> |
| | 134 | | | | | | | | | _ |
| | 135 | | L | L | L | L | | | | |
| | 136 | | | | | | | | L | |
| | 137 | | | | | | | | | |
| | 138 | | | | | | | | | |
| | 139 | | Г | | 1 | | Γ | | | |
| | 140 | | T | | T | | Π | _ | T | Г |
| | 141 | | | 1 | f | T | Ι | I^- | T | $\overline{}$ |
| - | 142 | | | | \vdash | - | \vdash | | \vdash | 1 |
| | 143 | - | - | ╁ | - | | \vdash | - | - | \vdash |
| - | 144 | ├ | \vdash | \vdash | \vdash | \vdash | ├ | \vdash | \vdash | \vdash |
| | | \vdash | \vdash | \vdash | \vdash | + | ├ | | \vdash | \vdash |
| | 145 | - | - | ⊢ | ├ | - | - | - | - | - |
| | 146 | | | ├ | ├ | - | +- | - | \vdash | ⊢ |
| | 147 | <u> </u> | | — | - | - | | \vdash | - | \vdash |
| | 148 | <u> </u> | <u> </u> | ! | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | 149 | <u> </u> | | <u> </u> | <u> </u> | _ | <u> </u> | _ | _ | <u></u> |
| L | 150 | L | <u>L</u> _ | <u>L.</u> | <u>L</u> | _ | | | <u>L</u> | |